

CLAIMS

1. A hermetic compressor comprising:

an electric driving element;

5 a compressing element driven by the electric driving element; and

a closed vessel for storing the electric driving element and the compressing element,

wherein the compressing element comprises:

10 a shaft having an eccentric shaft portion, and an auxiliary shaft portion and a spindle portion provided coaxially at the top and the bottom with the eccentric shaft portion between;

a cylinder block provided with a compression chamber;

a main bearing provided on the cylinder block and supporting the spindle portion;

15 an auxiliary bearing provided on the cylinder block and supporting the auxiliary shaft portion;

a piston reciprocating in the compression chamber; and

a connecting means connecting between the piston and the eccentric shaft portion;

20 wherein a first balance weight is provided at a side end of the eccentric shaft portion of the auxiliary shaft portion;

wherein a second balance weight is provided at a side end of the eccentric shaft portion of the spindle portion; and

25 wherein the first balance weight being constituted with the auxiliary shaft portion and a separate member.

2. A hermetic compressor as defined in Claim 1, wherein the auxiliary shaft portion and the first balance weight are fixed by means of a screw to each other.

5 3. A hermetic compressor as defined in Claim 1, wherein the auxiliary shaft portion and the first balance weight are fixed by means of a rivet to each other.

4. A hermetic compressor as defined in either one of Claim 1 to Claim 3, wherein the side end of eccentric shaft portion of the spindle portion and the first
10 balance weight are provided with fitting portion to be positioned by fitting of concave part and convex part.

5. A hermetic compressor as defined in either one of Claim 1 to Claim 3, wherein the auxiliary shaft portion and the sliding portion of the auxiliary shaft
15 portion are separated from the two ends of the auxiliary shaft portion, by no less than 1/2 of the diameter of the hole through which the screw or the rivet pass.

6. A hermetic compressor as defined in Claim 4, wherein the auxiliary shaft portion and the sliding portion of the auxiliary shaft portion are separated from the
20 two ends of the auxiliary shaft portion, by no less than 1/2 of the diameter of the hole through which the screw or the rivet pass.

7. A hermetic compressor as defined in Claim 5, wherein the main bearing is constituted with a member separate from the cylinder block.

8. A hermetic compressor as defined in Claim 6, wherein the main bearing is constituted with a member separate from the cylinder block.

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